

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/528,031
Source: PG/10
Date Processed by STIC: 3/25/05

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PCT

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/528,031

DATE: 03/25/2005

TIME: 09:09:11

Input Set : A:\PTO.SR.txt

Output Set: N:\CRF4\03252005\J528031.raw

3 <110> APPLICANT: ORIDIS BIOMED Forschungs- und Entwicklungs GmbH
 4 Guelly, Christian
 5 Buck, Charles R.
 6 Zatloukal, Kurt
 8 <120> TITLE OF INVENTION: Polypeptides and nucleic acids encoding these and their use
 for the
 9 prevention, diagnosis or treatment of liver disorders and epithelial cancer
 11 <130> FILE REFERENCE: Oridis Biomed
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/528,031
 C--> 14 <141> CURRENT FILING DATE: 2005-03-16
 16 <160> NUMBER OF SEQ ID NOS: 73
 18 <170> SOFTWARE: PatentIn version 3.1
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 654
 22 <212> TYPE: PRT
 23 <213> ORGANISM: Homo sapiens
 25 <400> SEQUENCE: 1
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 28 1 5 10 15
 31 Glu Ser Thr Asp Gly Met Ile Leu Gly Pro Glu Asp Leu Ser Tyr Gln
 32 20 25 30
 35 Ile Tyr Asp Val Ser Gly Glu Ser Asn Ser Ala Val Ser Thr Glu Asp
 36 35 40 45
 39 Leu Lys Glu Cys Leu Lys Lys Gln Leu Glu Phe Cys Phe Ser Arg Glu
 40 50 55 60
 43 Asn Leu Ser Lys Asp Leu Tyr Leu Ile Ser Gln Met Asp Ser Asp Gln
 44 65 70 75 80
 47 Phe Ile Pro Ile Trp Thr Val Ala Asn Met Glu Glu Ile Lys Lys Leu
 48 85 90 95
 51 Thr Thr Asp Pro Asp Leu Ile Leu Glu Val Leu Arg Ser Ser Pro Met
 52 100 105 110
 55 Val Gln Val Asp Glu Lys Gly Glu Lys Val Arg Pro Ser His Lys Arg
 56 115 120 125
 59 Cys Ile Val Ile Leu Arg Glu Ile Pro Glu Thr Thr Pro Ile Glu Glu
 60 130 135 140
 63 Val Lys Gly Leu Phe Lys Ser Glu Asn Cys Pro Lys Val Ile Ser Cys
 64 145 150 155 160
 67 Glu Phe Ala His Asn Ser Asn Trp Tyr Ile Thr Phe Gln Ser Asp Thr
 68 165 170 175
 71 Asp Ala Gln Gln Ala Phe Lys Tyr Leu Arg Glu Glu Val Lys Thr Phe
 72 180 185 190
 75 Gln Gly Lys Pro Ile Met Ala Arg Ile Lys Ala Ile Asn Thr Phe Phe
 76 195 200 205
 79 Ala Lys Asn Gly Tyr Arg Leu Met Asp Ser Ser Ile Tyr Ser His Pro

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80      210      215      220
83 Ile Gln Thr Gln Ala Gln Tyr Ala Ser Pro Val Phe Met Gln Pro Val
84 225      230      235      240
87 Tyr Asn Pro His Gln Gln Tyr Ser Val Tyr Ser Ile Val Pro Gln Ser
88      245      250      255
91 Trp Ser Pro Asn Pro Thr Pro Tyr Phe Glu Thr Pro Leu Ala Pro Phe
92      260      265      270
95 Pro Asn Gly Ser Phe Val Asn Gly Phe Asn Ser Pro Gly Ser Tyr Lys
96      275      280      285
99 Thr Asn Ala Ala Ala Met Asn Met Gly Arg Pro Phe Gln Lys Asn Arg
100      290      295      300
103 Val Lys Pro Gln Phe Arg Ser Ser Gly Gly Ser Glu His Ser Thr Glu
104 305      310      315      320
107 Gly Ser Val Ser Leu Gly Asp Gly Gln Leu Asn Arg Tyr Ser Ser Arg
108      325      330      335
111 Asn Phe Pro Ala Glu Arg His Asn Pro Thr Val Thr Gly His Gln Glu
112      340      345      350
115 Gln Thr Tyr Leu Gln Lys Glu Thr Ser Thr Leu Gln Val Glu Gln Asn
116      355      360      365
119 Gly Asp Tyr Gly Arg Gly Arg Arg Thr Leu Phe Arg Gly Arg Arg Arg
120      370      375      380
123 Arg Glu Asp Asp Arg Ile Ser Arg Pro His Pro Ser Thr Ala Glu Ser
124 385      390      395      400
127 Lys Ala Pro Thr Pro Lys Phe Asp Leu Leu Ala Ser Asn Phe Pro Pro
128      405      410      415
131 Leu Pro Gly Ser Ser Arg Met Pro Gly Glu Leu Val Leu Glu Asn
132      420      425      430
135 Arg Met Ser Asp Val Val Lys Gly Val Tyr Lys Glu Lys Asp Asn Glu
136      435      440      445
139 Glu Leu Thr Ile Ser Cys Pro Val Pro Ala Asp Glu Gln Thr Glu Cys
140      450      455      460
143 Thr Ser Ala Gln Gln Leu Asn Met Ser Thr Ser Ser Pro Cys Ala Ala
144 465      470      475      480
147 Glu Leu Thr Ala Leu Ser Thr Thr Gln Gln Glu Lys Asp Leu Ile Glu
148      485      490      495
151 Asp Ser Ser Val Gln Lys Asp Gly Leu Asn Gln Thr Thr Ile Pro Val
152      500      505      510
155 Ser Pro Pro Ser Thr Thr Lys Pro Ser Arg Ala Ser Thr Ala Ser Pro
156      515      520      525
159 Cys Asn Asn Asn Ile Asn Ala Ala Thr Ala Val Ala Leu Gln Glu Pro
160      530      535      540
163 Arg Lys Leu Ser Tyr Ala Glu Val Cys Gln Lys Pro Pro Lys Glu Pro
164 545      550      555      560
167 Ser Ser Val Leu Val Gln Pro Leu Arg Glu Leu Arg Ser Asn Val Val
168      565      570      575
171 Ser Pro Thr Lys Asn Glu Asp Asn Gly Ala Pro Glu Asn Ser Val Glu
172      580      585      590
175 Lys Pro His Glu Lys Pro Glu Ala Arg Ala Ser Lys Asp Tyr Ser Gly
176      595      600      605

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179 Phe Arg Gly Asn Ile Ile Pro Arg Gly Ala Ala Gly Lys Ile Arg Glu
180      610                      615                      620
183 Gln Arg Arg Gln Phe Ser His Arg Ala Ile Pro Gln Gly Val Thr Arg
184 625                      630                      635                      640
187 Arg Asn Gly Lys Glu Gln Tyr Val Pro Pro Arg Ser Pro Lys
188      645                      650
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192 <211> LENGTH: 72
193 <212> TYPE: PRT
194 <213> ORGANISM: Homo sapiens
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199 1                      5                      10                      15
202 Glu Thr Arg Ala Leu Phe Met Pro Arg Glu Asp Thr Ala Arg Pro Gln
203      20                      25                      30
206 Ser Ala Ser Gln Glu Glu Ser Ser Arg Glu Pro Asp His Ala Gly Thr
207      35                      40                      45
210 Leu Ile Val Asp Ile Ser Thr Ser Arg Thr Val Ile Gln Asn Ala Tyr
211      50                      55                      60
214 Val Ser Leu Glu Glu Thr Leu Lys
215 65                      70
218 <210> SEQ ID NO: 3
219 <211> LENGTH: 367
220 <212> TYPE: PRT
221 <213> ORGANISM: Homo sapiens
223 <400> SEQUENCE: 3
225 Met Leu Pro Pro Arg Arg Leu Gln Thr Leu Leu Arg Gln Ala Val Glu
226 1                      5                      10                      15
229 Leu Gln Arg Asp Arg Cys Leu Tyr His Asn Thr Lys Leu Asp Asn Asn
230      20                      25                      30
233 Leu Asp Ser Val Ser Leu Leu Ile Asp His Val Cys Ser Arg Arg Gln
234      35                      40                      45
237 Phe Pro Cys Tyr Thr Gln Gln Ile Leu Thr Glu His Cys Asn Glu Val
238      50                      55                      60
241 Trp Phe Cys Lys Phe Ser Asn Asp Gly Thr Lys Leu Ala Thr Gly Ser
242 65                      70                      75                      80
245 Lys Asp Thr Thr Val Ile Ile Trp Gln Val Asp Pro Asp Thr His Leu
246      85                      90                      95
249 Leu Lys Leu Leu Lys Thr Leu Glu Gly His Ala Tyr Gly Val Ser Tyr
250      100                     105                     110
253 Ile Ala Trp Ser Pro Asp Asp Asn Tyr Leu Val Ala Cys Gly Pro Asp
254      115                     120                     125
257 Asp Cys Ser Glu Leu Trp Leu Trp Asn Val Gln Thr Gly Glu Leu Arg
258      130                     135                     140
261 Thr Lys Met Ser Gln Ser His Glu Asp Ser Leu Thr Ser Val Ala Trp
262 145                     150                     155                     160
265 Asn Pro Asp Gly Lys Arg Phe Val Thr Gly Gly Gln Arg Gly Gln Phe
266      165                     170                     175
269 Tyr Gln Cys Asp Leu Asp Gly Asn Leu Leu Asp Ser Trp Glu Gly Val

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270          180          185          190
273 Arg Val Gln Cys Leu Trp Cys Leu Ser Asp Gly Lys Thr Val Leu Ala
274          195          200          205
277 Ser Asp Thr His Gln Arg Ile Arg Gly Tyr Asn Phe Glu Asp Leu Thr
278          210          215          220
281 Asp Arg Asn Ile Val Gln Glu Asp His Pro Ile Met Ser Phe Thr Ile
282 225          230          235          240
285 Ser Lys Asn Gly Arg Leu Ala Leu Leu Asn Val Ala Thr Gln Gly Val
286          245          250          255
289 His Leu Trp Asp Leu Gln Asp Arg Val Leu Val Arg Lys Tyr Gln Gly
290          260          265          270
293 Val Thr Gln Gly Phe Tyr Thr Ile His Ser Cys Phe Gly Gly His Asn
294          275          280          285
297 Glu Asp Phe Ile Ala Ser Gly Ser Glu Asp His Lys Val Tyr Ile Trp
298          290          295          300
301 His Lys Arg Ser Glu Leu Pro Ile Ala Glu Leu Thr Gly His Thr Arg
302 305          310          315          320
305 Thr Val Asn Cys Val Ser Trp Asn Pro Gln Ile Pro Ser Met Met Ala
306          325          330          335
309 Ser Ala Ser Asp Asp Gly Thr Val Arg Ile Trp Gly Pro Ala Pro Phe
310          340          345          350
313 Ile Asp His Gln Asn Ile Glu Glu Glu Cys Ser Ser Met Asp Ser
314          355          360          365
317 <210> SEQ ID NO: 4
318 <211> LENGTH: 188
319 <212> TYPE: PRT
320 <213> ORGANISM: Homo sapiens
322 <400> SEQUENCE: 4
324 Met Asp Val Asn Ile Ala Pro Leu Arg Ala Trp Asp Asp Phe Phe Pro
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328 Gly Ser Asp Arg Phe Ala Arg Pro Asp Phe Arg Asp Ile Ser Lys Trp
329          20          25          30
332 Asn Asn Arg Val Val Ser Asn Leu Leu Tyr Tyr Gln Thr Asn Tyr Leu
333          35          40          45
336 Val Val Ala Ala Met Met Ile Ser Ile Val Gly Phe Leu Ser Pro Phe
337          50          55          60
340 Asn Met Ile Leu Gly Gly Ile Val Val Val Leu Val Phe Thr Gly Phe
341 65          70          75          80
344 Val Trp Ala Ala His Asn Lys Asp Val Leu Arg Arg Met Lys Lys Arg
345          85          90          95
348 Tyr Pro Thr Thr Phe Val Met Val Val Met Leu Ala Ser Tyr Phe Leu
349          100          105          110
352 Ile Ser Met Phe Gly Gly Val Met Val Phe Val Phe Gly Ile Thr Phe
353          115          120          125
356 Pro Leu Leu Leu Met Phe Ile His Ala Ser Leu Arg Leu Arg Asn Leu
357          130          135          140
360 Lys Asn Lys Leu Glu Asn Lys Met Glu Gly Ile Gly Leu Lys Arg Thr
361 145          150          155          160
364 Pro Met Gly Ile Val Leu Asp Ala Leu Glu Gln Gln Glu Glu Gly Ile

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365                               165                               170                               175
368 Asn Arg Leu Thr Asp Tyr Ile Ser Lys Val Lys Glu
369                               180                               185
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373 <211> LENGTH: 398
374 <212> TYPE: PRT
375 <213> ORGANISM: Homo sapiens
377 <400> SEQUENCE: 5
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383 Asp Pro Gly Arg Phe Leu His Met Gly Thr Gln Ala Arg Gln Ser Ile
384                               20                               25                               30
387 Ala Ala His Leu Asp Asn Gln Val Pro Val Glu Ser Pro Arg Ala Ile
388                               35                               40                               45
391 Ser Arg Thr Asn Glu Asn Asp Pro Ala Lys His Gly Asp Gln His Glu
392 50                               55                               60
395 Gly Gln His Tyr Asn Ile Ser Pro Gln Asp Leu Glu Thr Val Phe Pro
396 65                               70                               75                               80
399 His Gly Leu Pro Pro Arg Phe Val Met Gln Val Lys Thr Phe Ser Glu
400                               85                               90                               95
403 Ala Cys Leu Met Val Arg Lys Pro Ala Leu Glu Leu Leu His Tyr Leu
404                               100                              105                              110
407 Lys Asn Thr Ser Phe Ala Tyr Pro Ala Ile Arg Tyr Leu Leu Tyr Gly
408                               115                              120                              125
411 Glu Lys Gly Thr Gly Lys Thr Leu Ser Leu Cys His Val Ile His Phe
412 130                              135                              140
415 Cys Ala Lys Gln Asp Trp Leu Ile Leu His Ile Pro Asp Ala His Leu
416 145                              150                              155                              160
419 Trp Val Lys Asn Cys Arg Asp Leu Leu Gln Ser Ser Tyr Asn Lys Gln
420                               165                               170                               175
423 Arg Phe Asp Gln Pro Leu Glu Ala Ser Thr Trp Leu Lys Asn Phe Lys
424                               180                               185                               190
427 Thr Thr Asn Glu Arg Phe Leu Asn Gln Ile Lys Val Gln Glu Lys Tyr
428                               195                               200                               205
431 Val Trp Asn Lys Arg Glu Ser Thr Glu Lys Gly Ser Pro Leu Gly Glu
432 210                              215                              220
435 Val Val Glu Gln Gly Ile Thr Arg Val Arg Asn Ala Thr Asp Ala Val
436 225                              230                              235                              240
439 Gly Ile Val Leu Lys Glu Leu Lys Arg Gln Ser Ser Leu Gly Met Phe
440                               245                               250                               255
443 His Leu Leu Val Ala Val Asp Gly Ile Asn Ala Leu Trp Gly Arg Thr
444                               260                               265                               270
447 Thr Leu Lys Arg Glu Asp Lys Ser Pro Ile Ala Pro Glu Glu Leu Ala
448                               275                               280                               285
451 Leu Val His Asn Leu Arg Lys Met Met Lys Asn Asp Trp His Gly Gly
452 290                              295                              300
455 Ala Ile Val Ser Ala Leu Ser Gln Thr Gly Ser Leu Phe Lys Pro Arg
456 305                              310                              315                              320
459 Lys Ala Tyr Leu Pro Gln Glu Leu Leu Gly Lys Glu Gly Phe Asp Ala

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VERIFICATION SUMMARY

DATE: 03/25/2005

PATENT APPLICATION: US/10/528,031

TIME: 09:09:12

Input Set : A:\PTO.SR.txt

Output Set: N:\CRF4\03252005\J528031.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application Number

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date